MAY 2012 **P/ID 16107/KAG/PITD**

Time : Three hours Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) What is a computer network? State the uses of computer networks.

Or

(b) What do you mean by narrow band ISDN and explain their applications?

2. (a) What ate the major design issues in DLL? Discuss.

Or

(b) How errors are defected and corrected?

3. (a) Why channel allocation problem is critical? Justify.

Or

(b) Write IEEE 802 standards for LAN.

4. (a) Why routing the information packets are important? Explain the strategies.

Or

(b) What are the salient features of IPV6? Discuss.

5. (a) What is cryptanalysis? In which layer, this is dealt with?

Or

(b) Explain the services of World Wide Web.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

6. Explain any one computer network reference model and describe their functions.

7. Describe different transmission media employed in physical layer and compare their performances.

8. What is sliding window protocol? Explain.

9. Describe multiple access protocols and where are they used.

10. Explain what is congestion? Describe how to get solved this problem.

11. Describe the internet and its working. Illustrate about the internet protocols standards.

12. Explain various transport services and the salient features in transport protocol.

13. What comprises in network security? Describe DNS and SMMP.

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